A Note on Dhammapada 60 and the Length of the Yojana

I. Dhammapada 60 and its counterparts

Dhammapada 60 is the first verse of the $B\bar{a}la$ -vagga, "The Chapter on Fools". It may be rendered as follows:

Long is the night for one who is sleepless; long is the league for one who is weary. Long is samsāra for the fool who does not understand the Good Dhamma.

In the Pāli and Patna *Dhammapadas* the verse is in the *Bālavagga*; in the $Ud\bar{a}navarga$ it is in the *Anityavarga*. The first part of the *Anityavarga* of the $Ud\bar{a}navarga$ from Subaši, which should have contained the verse, is lost, as is the entire $B\bar{a}lavarga$ of the "Gāndhārī *Dharmapada*", which might have contained the verse. A perfect equivalent to the $Ud\bar{a}navarga$ verse is cited in the $Mah\bar{a}karmavibhanga$ as "a $g\bar{a}th\bar{a}$ spoken by the Lord", and lines c and d are cited in Bhavya's $Tarkajv\bar{a}l\bar{a}$, as preserved in Tibetan translation.

¹The verse is not included in the Fa chü p'i yü ching (Taishō 211): see Samuel Beal, Texts from the Buddhist Canon, Commonly known as Dhammapada, with accompanying Narratives, [Boston, 1878] San Francisco, 1977, p. 77, and Charles Willemen, Dharmapada: A Concordance to Udānavarga, Dharmapada, and the Chinese Dharmapada Literature, Brussels, 1974, p. 10.
²Cf. H. Nakatani (ed.), Udānavarga de Subaši, Paris, 1987, p. 13.

³ Cf. John Brough, *The Gandhari Dharmapada*, London, 1962, pp. 10–12.

⁴ bhagavatā gāthā bhāṣitā: Sylvain Lévi, Mahākarmavibhanga (La grande classification des actes) et Karmavibhangopadeśa (Discussion sur le Mahā Karmavibhanga), Paris, 1932, p. 46.4; P.L. Vaidya, Mahāyāna-sūtra-saṃgraha I (Buddhist Sanskrit Texts 17), Darbhanga, 1961, p. 187.9.

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Dhp 60 (V,1)

PDhp 185 (XI,12b)

Uv I,19; Mkv 46.4

dīghā jāgarato rattī

drīghā assupato rātrī

dīrghā jāgarato rātrir

dīgham santassa

drīgham śāntassa

dīrgham śrāntasya

yojanam yojanam yojanam

dīgho bālānam

drīgho bālāna samsāro

dīrgho bālasya

samsāro

samsārah

saddhammam

saddhammam

saddharmam

avijānatam.

avijānatām.5

avijānatah.6

UvT I,19

Mkv 189.8

mel tshe byed la mtshan mo rin// lam gyis dub la rgyan grags rin// dam chos rnam par mi ses pa'i// byis pa rnams la 'khor ba rin//7

mel tshe byed na nam yan rin// nal ba dag la dpag tshad rin// dam pa'i chos na ses gyur kyan// byis pa rnams la 'khor ba rin//8

dam chos rnam par mi ses pa'i// byis pa la ni 'khor ba rin//9

Chinese Udānavarga 1,18

Tarkajvālā 167.28

To him who does not sleep soundly the night seems long. To him who is tired the road seems long. For the fool birth and death are longlasting. Few hear the good law. 10

Both the Pāli and Patna Dhammapadas give bāla in the plural, as does the Tibetan of the Udanavarga and the Mahakarmavibhanga (in both bvis pa rnams). The Sanskrit Udānavarga (and the Chinese Udānavarga in English translation), the Sanskrit Mahākarmavibhanga, and the Tibetan Tarkajvālā citation give bāla in the singular. The Tibetan Udānavarga has rgyan grags = krośa in place of yojana; this is probably a slip of the translators. The Udanavargavivarana and the Tibetan Mahākarma-vibhanga have dpag tshad = yojana.

II. The setting (nidāna) of the verse

Prajñāvarman, in his *Udānavargavivarana*, gives three *nidānas* for the *Udānavarga* verse:11

⁵ Margaret Cone, "Patna Dharmapada", JPTS XIII (1989), p. 185; Gustav Roth, "Text of the Patna Dharmapada", in Heinz Bechert (ed.), The Language of the Earliest Buddhist Tradition, Göttingen, 1980, p. 114. I prefer "Patna Dhammapada" to "Patna Dharma-pada", since dhamma is so spelt in the body of the text: Dharmmapada occurs only in the Sanskrit colophon. I have proposed elsewhere that the PDhp might be a recension of the Sammativa school: see Peter Skilling, "Theravādin Literature in Tibetan Translation", JPTS XIX (1993), p. 152, n. 1.

⁶ Franz Bernhard (ed.), *Udānavarga*, Vol. I, Göttingen, 1965, p. 102.

⁷ Siglinde Dietz and Champa Thupten Zongtse, *Udānavarga*, Vol. III, Göttingen, 1990, p. 34.

⁸ Lévi's text is based on the Narthang blockprint, compared with the Peking (p. 183, n. 1). I assume that Narthang reads na, as given by Lévi. Peking reads here ni (Q1005, Vol. 39, mdo śu, 291b2). The reading should rather be the negative mi.

⁹ Shotaro Iida, Reason and Emptiness: A Study in Logic and Mysticism, Tokyo, 1980, p. 167.28.

¹⁰ Taishō 213, tr. by Charles Willemen, The Chinese Udānavarga: A Collection of Important Odes of the Law, Fa Chi Yao Sung Ching (Mélanges chinois et bouddhiques XIX), Brussels, 1978, p. 2.

¹¹ UvViv I 98.15-99.10. For the alternate nidānas given by Prajñāvarman, see Michael Balk, Untersuchungen zum Udanavarga, Bonn, 1988, pp. 205-12 and Skilling, "Theravadin Literature", pp. 143-53.

(1) When the monks were gathered, seated together in the assembly hall (bsti gnas kyi khan pa), 12 this chance discussion arose: "What, venerable ones, is that which is called 'long' (dīrgha)?" Some said, "The night is long for one who is awake". Others said, "The yojana is long for the weary traveller". Overhearing [their discussion], the Lord spoke this verse.

(2) According to others: A deity (deva) came and asked the Lord:

"What is long for one who is awake? What is long for the weary traveller?

rim 'gro'i khan pa (Karmaprajñapti, Q5589, Vol. 115, mnon pa khu, 112a3):

dpon sa'i khan pa (Vinayavibhanga, Q1032, Vol. 42, 'dul ba je, 1a3, 5, 7, 8 = Sanghabhedavastu, loc. cit.);

bkad sa (MPS 19.1, 2, 4, 5; at Mvy 5562 bkad sa = mandapa);

'dun khan (Kośavyākhyā, Q5593, Vol. 117, mnon pa chu, 303b7;

mdun ma (Śamathadeva, Abhidharmakośopāyikā-tīkā, Q5595, Vol. 118, mnon pa thu, 58b6, 59a4);

bsñen bkur gyi gnas (Śayanāsanavastu, Q1030, Vol. 41, 'dul ba ne, 179a5, b5 (dkur for bkur).

What is long for the fool?

I beg your answer to these riddles."

The Lord replied, "Night is long for the wide-awake", and so on.

(3) Others say that this verse was spoken [by the Lord] with reference to (ārabhya) the sleepless King Prasenajit and a weary traveller.

The first *nidāna*, which I will call the "official" one—the *nidāna* transmitted by Prajñāvarman's school, the (Mūla)Sarvāstivādins—is a summarized version of a stock opening employed in both (Mūla)Sarvāstivādin and Theravādin sūtra literature. The *nidāna* might therefore be drawn from a canonical text. The second *nidāna*, attributed to "others" (*gźan dag = anye*)—that is, another school—may also be canonical, since it resembles the short sūtras in which a deity or other figure approaches the Buddha and asks a riddle in verse, to which the Buddha replies in verse. Such sūtras are common in the *Deva-* and *Devatā-saṃyuttas* of the *Sagātha-vagga* of the *Saṃyutta-nikāya*, although no counterpart to Prajñāvarman's citation is found there or elsewhere in Pāli. The third *nidāna*, also attributed to "others", resembles the short *nidānas* given at the head of the stories in the *Dhammapada-aṭṭhakathā*. For the present verse that text gives the following *nidāna*: ¹³

imam dhammadesanam satthā jetavane viharanto pasenadikosalañ c' eva aññatarañ ca purisam ārabbha kathesi.

The Teacher gave this religious instruction when he was staying in the Jetavana, with reference to [King] Pasenadi of Kosala and a certain man.

¹² Cf. the stock introduction at Śayanāsanavastu (Raniero Gnoli, The Gilgit Manuscript of the Śayanāsanavastu and the Adhikaraṇavastu, Rome, 1978, p. 3.9 sambahulānām bhikṣūṇām upasthānaśālāyām saṃniṣaṇṇānām saṃnipatitānām ayam evaṃrūpo 'bhūd antarākathāsamudāhārah; Kośavyākhyā (ed. Swami Dwarikadas Shastri, IV 1066, antepenult); introductions to MN 119 and 123 (III 88.18, 118.12) sambahulānaṃ bhikkhūnaṃ... upaṭṭhānasālāyaṃ sannisinnānaṃ sannipatitānaṃ ayam antarākathā udapādi; Karmaprajñapti, Upāyikā-tīkā (see below). It seems that here bsti gnas kyi khan pa = upasthānasālā (Pāli upaṭṭhānasālā): bsti stan frequently translates forms of sat-kr, which is one of the senses of upasthāna. upasthānaśālā is frequently rendered as rim gro'i gnas, the form sanctioned by the Mahāvyutpatti (Mvy 5565; MPS 2.1–4; Vinayavastu, Saṃghabhedavastu, Q1030, Vol. 42, 'dul ba ce, 155b7, 156a1, 2 = Raniero Gnoli (ed.), The Gilgit Manuscript of the Saṅghabhedavastu, Part II, Rome, 1978, p. 75.25 foll.). But there are, for Tibetan, a surprising number of alternates:

¹³ Dhammapada-aṭṭhakathā, Aññatarapurisa-vatthu, (Mm) III 100.3; (PTS) II 1.3.

The *Dhammapada-aṭṭhakathā* gives a long story¹⁴ in which King Pasenadi of Kosala, out touring the city, glimpses the wife of "a certain poor man",¹⁵ becomes infatuated with her, and spends a sleepless night.¹⁶ The reference to "the sleepless King Prasenajit" of the UvViv fits the *Dhammapada-aṭṭhakathā* story, but the "weary traveller" does not, since the "certain poor man" of the latter is a resident of the city, and is taken by the King into his service (with a sinister motive). Nonetheless, Prajñāvarman's reference suggests that, as in other cases, he knew an exegetical tradition on the *Udānavarga/Dharmapada* that was related to that of the Theravādins.

III. The length of the yojana

The Dhammapada-atthakathā, commenting on the line "long is the league to him that is weary" (dīgham santassa yojanam), defines a yojana as equal to four gāvuta: yojanan ti yojanam pi catuggāvutamattam eva.¹⁷ The Vibhanga-atthakathā states that 80 usabha are a gāvuta, and four gāvuta a yojana: asīti usabhāni gāvutam, cattāri gāvutāni yojanam.¹⁸ The Abhidhānappadīpikā adds one more measurement:

gāvutam usabhāsīti yojanam catugāvutam dhanupañcasatam koso. 19

A gāvuta is 80 usabha, a yojana four gāvuta; a kosa is 500 dhanu.

The Pāli Text Society's Dictionary (p. 250a) defines *gāvuta* as "a linear measure, a quarter of a *yojana* = 80 *usabhas*, a little less than two miles, a league". For *yojana* (p. 559a) it has "a measure of length: as much as can be travelled with *one* yoke (of oxen), a distance of about 7 miles, which is given by Buddhaghosa as equal to 4 *gāvutas*", referring to the *Dhammapada-aṭṭhakathā* definition given above. It does not give *kosa* (p. 230ab) or *dhanu* (p. 335a) in the sense of measurements.

Medhamkara's $Lokad\bar{\imath}pakas\bar{a}ra$ gives the relation between kosa and $g\bar{a}vuti$:

dhanu pañcasatam kosam kosam cattāri gāvutam gāvutāni ca cattāri yojanan ti pavuccatīti.
500 dhanu are a kosa, four kosa are a gāvuta; four gāvuta are called a yojana.

¹⁴ (PTS) II 1–19; (Mm) III 100–114; Eugene Watson Burlingame (tr.), *Buddhist Legends*, Part 2 ([1921] London 1979), Part 2, pp. 100–111.

¹⁵ (Mm) III 100.9; (PTS) II 1.12 aññatarassāpi (PTS aññattarassāpi) duggatapurisassa bhariyā.

¹⁶ (PTS) II 5.10, rañño pi tam rattim niddam alabhantassa; 5.20, rājā niddam alabhanto.

¹⁷ (Mm) III 109.20; (PTS) II 13.4.

¹⁸ Sammohavinodanī nāma Vibhangaṭṭhakathā, Nālandā ed. p. 346.19 = PTS ed. p. 343.

¹⁹ Phra gambhīr abhidhānappadīpikā ru bacanānukram bhaṣāpālī plae pen thai (Mahāmakuṭarājavidyālaya, Bangkok, 2508 [1965]), p. 53, vv. 196cd, 197a.

²⁰ National Library-Fine Arts Department, *Lokadīpakasāra*, Bangkok, 2529 [1986], Chap. 7, p. 544.18.

A similar verse is found in the *Saṃkhyāpakāsaka-pakaraṇa*²¹ and *Cakkavāladīpanī*.²²

dhanu pañcasatam kosam catukosañ ca gāvutam gāvutāni pi cattāri yojanan ti pavuccati.

The same figures are given by Daśabalaśrīmitra in Chapter 5 of his *Saṃskṛtāsaṃskṛta-viniścaya*, "Analysis of Matter and Time" (*Rūpa-kāla-viniścaya). ²³ The chapter gives a brief account of the components of atoms (paramāṇu) and of measurements of size from the atom up to the yojana, according to the Vaibhāṣikas. To this the author appends three lines of verse "from the tradition (āgama) of the Ārya Sthavira nikāya":

gźu 'dom lna brgya rgyan grags te// rgyan grags bźi la ba lan 'gros//

ba lan 'gros bźi dpag tshad do// żes so//

500 dhanu are one kosa; four kosa are one $g\bar{a}vuta$; four $g\bar{a}vuta$ are one yojana.

Although the measurements are the same, the citation does not exactly correspond to any of our sources, since it gives all three measures in three lines. It is closest to the *Lokadīpakasāra* and *Saṃkhyāpakāsaka* versions. Medhaṃkara wrote the former at Muttamanagara (Martaban) in Rāmaññadesa in the 14th century. Ñāṇavilāsa, author of the latter, was probably a Northern Thai monk from Chiang Saen of the late 15th to early 16th century, ²⁴ while Sirimangala (a student of the preceding, who wrote a commentary on the *Saṃkhyāpakāsaka*) compiled the *Cakkavāṭadīpanī* in the kingdom of Lanna (Chiang Mai) in BE 2063 (CE 1520). ²⁵ Since Daśabalaśrīmitra probably lived in the 12th or 13th century, his citation is the earliest known source that includes the equation 4 *kosa* = 1 *gāvuta*. ²⁶ The equation is not found in the *Abhidhānappadīpikā*, composed by Moggallāna in the Jetavana Monastery at Pulatthipura towards the end of the 12th century. ²⁷

Non-Theravādin sources give different definitions. Prajñāvarman's *Udānavarga-vivaraṇa* has: "in this case a *yojana* equals a distance of four *krośa*" (*dpag tshad ni 'dir rgyan grags bźi'i lam mo*). ²⁸ The same figure is given in the Śārdūlakarṇāvadāna and the

²¹ Boonna Sonchai, Saṃkhyāpakāsakapakaraṇaṃ and Commentary: An Edition and Critical Study, Thesis submitted in Partial Fulfillment of the Requirements for the Degree of Master of Arts, Department of Eastern Languages, Graduate School, Chulalongkorn University, 1980, Chap. I, Addhā-saṃkhyā, v. 8 (p. 40). For this text see Abstracts of M.A. Pāli-Sanskrit Theses (Pāli and Sanskrit Section, Department of Eastern Languages, Faculty of Arts, Chulalongkorn University 2531), pp. 39 (Thai) and 123 (English) and Supaphan na Bangchang, Vivaḍhanākār varrṇagatī sai phra suttantapiṭak ti daeng nai pradeś thai, Bangkok, 2533 [1990], pp. 325–33.

² National Library-Fine Arts Department, $Cakkav\bar{a}lad\bar{i}pan\bar{i}$, Bangkok, 2523 [1980], p. 208.7, with the sole variant ca for pi in line c (= $Lokad\bar{i}pakas\bar{a}ra$). The $Cakkav\bar{a}lad\bar{i}pan\bar{i}$ is citing the $Lokad\bar{i}pakas\bar{a}ra$: the source is given at the beginning of the section (202.11, $vuttam\ lokad\bar{i}pakas\bar{a}re$) after which Sirimangala introduces his citations with $vuttam\ tatth'$ eva. For this text see Supaphan, $op.\ cit.$, 405–18.

²³ For Daśabala and his *Saṃskṛtāsaṃskṛta-viniścaya* see Peter Skilling, "The Saṃskṛtāsaṃskṛta-viniścaya of Daśabalaśrīmitra", *Buddhist Studies Review* 4/1 (1987), pp. 3–23.

²⁴ Supaphan, op. cit., pp. 325–26.

²⁵ Supaphan, op. cit., p. 405.

 $^{^{26}}$ I would not be astonished if more on measurements, including perhaps the figure in question, occurs in the $Tik\bar{a}$ literature.

²⁷ For the date see K.R. Norman, *Pāli Literature* (Jan Gonda [ed.], *A History of Indian Literature*, Vol. VII, Fasc. 2), Wiesbaden, 1983, pp. 166–67; Claus Vogel, *Indian Lexicography*, (Jan Gonda [ed.], *A History of Indian Literature*, Vol. V, Fasc. 4), Wiesbaden, 1979, p. 313; Jinadasa Liyanaratne, "South Asian flora as reflected in the twelfth-century Pāli lexicon *Abhidhānappadīpikā*", *JPTS* XX (1994), p. 43.

²⁸ I 100.5.

Lalitavistara; the former refers to a "Magadhan yojana", the latter to a

"Magadhan krośa". 29 In both texts 1000 dhanu = 1 krośa. The

Vaibhāsika definition given by Daśabalaśrīmitra (D 119b5, O 18a3) is

"500 dhanu are one krośa; eight krośa are one yojana". This agrees with

the Abhidharmakośa (III,87cd, 88a). 30 (Yaśomitra does not add any

comments.)³¹ Hsüan-tsang (second quarter of the 7th century) gives the

same figures. 32 The Sanskrit-Tibetan lexicon *Mahāvyutpatti* (beginning of the 9th century) gives only one measurement, *dhanuh pañca śatāni*

krośah.³³ In sum:

500 dhanu = 1 krośa (Theravāda, Vaibhāṣika, Hsüan-tsang, Mahāvyutpatti);

1000 dhanu = 1 krośa (Śārdūlakarṇāvadāna, Lalitavistara);

4 krośa = 1 yojana (Prajñāvarman, Śārdūlakarṇāvadāna, Lalitavistara)

8 krośa = 1 yojana (Vaibhāṣika, Hsüan-tsang)

16 krośa = 1 yojana (Theravāda).

Monier-Williams defines a *krośa* as "the range of the voice in calling or hallooing', a measure of distance (an Indian league, commonly called a Kos = 1000 Daṇḍas = 4000 Hastas = 1/4 Yojana; according to others = 2000 Daṇḍas = 8000 Hastas = 1/2 Gavyūti.³⁴ He defines a *yojana* as "a stage or Yojana (*i.e.* a distance traversed in one harnessing or without unyoking; esp. a particular measure of distance, sometimes regarded as equal to 4 or 5 English miles, but more correctly = 4 Krośas or about 9 miles; according to other calculations = 2 1/2 English miles, and according to some = 8 Krośas". ³⁵ His sources thus give some of the definitions used by the Buddhists, but as part of different systems of measurement. Evidently, and naturally enough, a number of systems coexisted, and the definition of the *yojana* varied with time, place, tradition, and context. ³⁶ It could hardly have been a matter of sectarian dispute for the Buddhists, although it may have had some significance in the interpretation of the Vinaya. ³⁷

²⁰ E.B. Cowell & R.A. Neil (eds.), *The Divyāvadāna*, repr. Delhi, 1987, p. 645.15 dhanuḥ sahasram ekakrośaḥ, catvāraḥ krośā eko māgadho yojanaḥ = Q1027, sTag rna'i rtogs pa brjod pa, Vol. 40, mdo ke, 264b4 gźu ston la ni rgyan grags gcig go; rgyan grags bźi la ni ma ga dha'i dpag tshad gcig go; P.L. Vaidya (ed.), Lalitavistara, Darbhanga, 1958, p. 104.5 dhanuḥ sahasram māgadha (mārgadhvajā, text) krośaḥ, catvāraḥ krośā yojanam = Q763, Vol. 27, mdo ku, 89b4 gźu ston la ni yul ma ga dha'i rgyan grags gcigo; rgyan grags bźi la ni dpag tshad gcig go.

³⁰ P. Pradhan (ed.), Abhidharmakośabhāṣyam of Vasubandhu, Patna, 1975, 177.4, pañcaśatāny eṣām krośo 'ranyam ca tan matam: dhanuṣām pañca śatāni krośah, krośamātram ca grāmādi 'ranyam iṣṭam, te 'ṣṭau yojanam ity āhuḥ. See also William Edward Soothill and Lewis Hodous, A Dictionary of Chinese Buddhist Terms, [London, 1937] Delhi, 1987: krośa, pp. 92b-93a, 261b, 304a, 322a; yojana, 197b, and L. Petech, Northern India according to the Shui-ching-chu, Rome, 1950, p. 29. For a complete list of measurements, see William Montgomery McGovern, A Manual of Buddhist Philosophy, [London, 1923] Lucknow, 1976, pp. 41–43.

³¹ Swami Dwarikadas Shastri (ed.), Abhidharmakośa & Bhāṣya of Acharya Vasubandhu with Sphuṭārthā Commentary of Ācārya Yaśomitra, Part II, Varanasi, 1971, p. 536.19.

³² Samuel Beal, Si-yu-ki. Buddhist Records of the Western World, London, 1884 (repr. Delhi, 1981) I 70–71; Thomas Watters, On Yuan Chwang's Travels in India (A.D. 629–645), London, 1904–5 (repr. New Delhi, 1973) I 141–43.

³³ Mvy 8205.

³⁴ Sir Monier Monier-Williams, *A Sanskrit-English Dictionary*, [Oxford, 1899] Delhi, 1976, p. 322b.

³⁵ *ibid* ., p. 858a.

³⁶ See A.L. Basham, *The Wonder that was India*, [1967] Calcutta, 1971, pp. 505–6.

³⁷ See e.g. *The Entrance to the Vinaya*, *Vinayamukha*, Vol. I, Bangkok, 2512/1969, pp. 235–36. The *Lokadīpakasāra* (544.7 foll. = *Cakkavāļadīpanī* 207.21 foll.) mentions two types of *yojana: brahmādi-yojana* and *bhūmyādi-yojana*. The first, used for cosmic measurements such as the size of the moon,

In Section IV I give a translation, in Section V the Tibetan text, of Chapter 5 of the *Saṃskṛtāsaṃskṛta-viniścaya*. Daśabalaśrīmitra's description of atoms agrees with that of the *Indriyanirdeśa* (Chap. 2) of the *Abhidharmakośa*.³⁸ His enumeration of measurements of size and units of time, both given in ascending order, agrees on the whole with that of the *Lokanirdeśa* (Chap. 3) of the *Abhidharmakośa*.³⁹ The relative antiquity of the enumerations of size and time is shown by the fact that they are given in the *Lokaprajñapti*, a "canonical" text of the (Mūla)Sarvāstivādin Abhidharma.⁴⁰

The Vibhanga-atthakathā gives a series of ascending measurements of size, starting from the atom. 41 The same figures are

sun, and *vimānas*, is that of Daśabalaśrīmitra's verse. The second, used for the measurement of land, mountains, and physical distance, will be described below. ³⁸ Cf. Louis de La Vallée Poussin, *L'Abhidharmakośa de Vasubandhu*, Tome I, repr. Brussels, 1971, pp. 143–47. Cf. Padmanabh S. Jaini (ed.), *Abhidharmadīpa with Vibhāṣāprabhāvṛtti*, Patna, 1977, (text) pp. 65–66, and Y. Karunadasa, *Buddhist Analysis of Matter*, Colombo, 1967, Chapter 8, "Atomism".

given in the $Abhidh\bar{a}nappad\bar{\imath}pik\bar{a}$, $Lokad\bar{\imath}pakas\bar{a}ra$, $Samkhy\bar{a}pak\bar{a}saka$, and $Cakkav\bar{a}lad\bar{\imath}pan\bar{\imath}$.⁴²

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36 paramānu = 1 anu

36 aņu = 1 tajjārī

36 tajjārī = 1 rathareņu

36 ratharenu = 1 likkhā

7 $likkh\bar{a} = 1 \bar{u}k\bar{a}$

 $7 \bar{u}k\bar{a} = 1 dha\tilde{n}\tilde{n}am\bar{a}sa$

7 dhaññamāsa = 1 aṅgula

12 angula = 1 vidatthi

 $2 \ vidatthi = 1 \ ratana$

7 ratana = 1 yatthi

20 yatthi = 1 usabha

80 usabha = 1 gāvuta

 $4 g\bar{a}vuta = 1 yojana$.

The figures and names are quite different from those of the Vaibhāṣikas, with the exception of the equations $7 \ likkh\bar{a} = 1 \ \bar{u}k\bar{a}$; $7 \ \bar{u}k\bar{a}$ = $1 \ dhaññam\bar{a}sa$; $7 \ dhaññam\bar{a}sa = 1 \ angula$, which may be compared with the $7 \ liks\bar{a} = 1 \ y\bar{u}ka$; $7 \ y\bar{u}ka = 1 \ yava$; $7 \ yava = 1 \ angul\bar{i}$ -parvan of the Vaibhāṣika system (see below).

The $Abhidh\bar{a}nappad\bar{i}pik\bar{a}$ does not enumerate the units of time. For these we may turn to Medhamkara's $Lokad\bar{i}pakas\bar{a}ra$:⁴³

³⁹ See *L'Abhidharmakośa de Vasubandhu*, Tome II, pp. 177–80. I am indebted to La Vallée Poussin's valuable notes. Unfortunately the sections of the third chapter of the *Abhidharmadīpa* and its *Vibhāṣāprabhāvrtti*, in which the information might have occurred, are lost: see Jaini, p. 115, n. 1.

Le monde des êtres et le monde-réceptacle. — Vasubandhu et Yaçomitra. Troisième chapitre de l'Abhidharmakoça: Kārikā, Bhāṣya et Vyākhyā. Avec une analyse de la Lokaprajñapti et de la Kāraṇaprajñapti de Maudgalyāyana, in Académie Royale de Belgique, Classe des Lettres et des Sciences morales et politiques et Classe des Beaux-Arts, Mémoires, deuxième série, tome VI, fasc. II, Brussels, January, 1919, p. 309. For size see Lokaprajñapti, Q5587, Vol. 115, mnon pa khu 11a7-b2; for time see 54a4.

⁴¹ Vibhanga-atthakathā (Nālandā ed.) 346.5–19 = PTS ed. p. 343; Bhikkhu Nāṇamoli (tr.), The Dispeller of Delusion (Sammohavinodanī), Part II, Oxford, 1991, p. 67.

⁴² Abhidhānappadīpikā vv. 194–96; Lokadīpakasāra p. 544.10–15; Samkhyāpakāsaka Ch. 1, vv. 2–5; Cakkavāļadīpanī 207,penult.–208.4. Cf. Y. Karunadasa, op. cit., pp. 150–51. According to the Lokadīpakasāra and Cakkavāļadīpanī this is the bhūmyādi-yojana.

⁴³ Lokadīpakasāra 546.1. I quote the verse from the Cakkavāļadīpanī (see following note) because it appears to be corrupt in the Lokadīpakasāra.

dasakkharā ekaprāṇam chaprāṇañ ca vinādikaṃ vinādī pañcadasa pādaṃ catupādañ ca nādikā saṭṭhi nādī ahorattaṃ tiṃsarattekamāsakaṃ dvādasamāsakaṃ vassaṃ evaṃ kālaṃ vijāniya.

10 akkhara are 1 prāṇa; 6 prāṇa are 1 vinādikā; 15 vinādī are 1 pāda; 4 pāda are 1 nādikā;

60 nādī are 1 day-and-night (ahoratta);

30 nights are 1 month (māsa);

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12 months are 1 year (vassa).

The verses are cited by Sirimangalācariya in his $Cakkav\bar{a}lad\bar{i}pan\bar{i}$, with a prose commentary. ⁴⁴ The terms akkhara, $pr\bar{a}na$ (or $p\bar{a}na$), $vin\bar{a}d\bar{i}$ / $vin\bar{a}dik\bar{a}$, $p\bar{a}da$, and $n\bar{a}d\bar{i}$ / $n\bar{a}dik\bar{a}$ (or $n\bar{a}lik\bar{a}$) are not listed by the PED in the sense of units of time. Some of the terms are found in non-Buddhist texts. ⁴⁵

The study of Buddhist systems of measurements is complex, and we still have much to learn. I hope that further Buddhist sources, whether in Pāli, Sanskrit, Tibetan, or Chinese, will one day throw more light on the subject, in comparison with Jaina and Brahmanical systems. The present article shows that, while Daśabalaśrīmitra followed the Vaibhāṣika system of measurement, he was aware that the Sthaviras defined the *yojana* differently.

IV. "Analysis of Matter and Time": Chapter 5 of the Samskrtāsamkrta-viniścaya

[1. The components of the atom]

Herein, the sublest aggregation of matter (sarvasūkṣmo hi rūpasamghātaḥ) in the world of sentient beings and the receptacle world (sattva-bhājana-loka) is called the atom (paramāṇu). That beyond which nothing smaller can be known is the atom.

[1.1. The atom in the Sensual Realm (kāmadhātu)]

In the Sensual Realm ($k\bar{a}madh\bar{a}tu$), without sound and without faculty ($k\bar{a}madh\bar{a}tav$ aśabdako 'nindriyaḥ), an eight-substance-atom arises (aṣṭadravyaka utpadyate). Therein, these are the eight substances (aṣṭau dravyāṇi): earth (pṛthivī), water (ap), fire (tejas), wind (vāyu), visible-form (rūpa), odour (gandha), taste (rasa), and touchables (spraṣṭavya). When sound is added to these, there is a nine-substance-atom (navadravyaka). The atom of the body-faculty (kāyendriya) comprises nine substances. Therein, the nine substances are the aforementioned eight substances and the body-faculty-substance. When endowed with sound, there is a ten-substance-atom (daśadravyaka). The atoms of the other faculties comprise ten substances. Therein, the ten substances are the aforementioned nine substances and the substance of each individual faculty. When endowed with sound, it becomes an eleven-substance-atom (ekādaśadravyaka). This is taught: 48

⁴ Cakkavāladīpanī 208.15-209.14.

⁴⁵ See Louis Renou & Jean Filliozat, L'Inde classique, Manuel des études indiennes, II, Hanoi, 1953, p. 735; Basham, op. cit., 506.

⁴⁶ See, for example, the measurements listed by the 19th century Tibetan polymath Jamgön Kongtrul Lodrö Tayé (Kon sprul Blo gros mtha' yas, 1813–99), in *Myriad Worlds: Buddhist Cosmology in Abhidharma, Kālacakra, and Dzog-chen*, Ithaca, 1995, pp. 158–59 (time); 166–69 (space).

⁴⁷ The Sanskrit given in parentheses up to this point is for the most part drawn from *Kośabhāsya*, *Indriyanirdeśa*, pp. 52.24–53.8.

^{**} The verse is Kośakārikā II,22 kāme 'stadravyako 'sabdah paramānur anindriyah; kāyendriyī navadravyah daśadravyo 'parendriyah. I cannot explain (and for now ignore) the double negatives of the Tibetan, which do not fit the prose or the Kośa verse.

In the Sensual [Realm] the atom has eight substances without sound and without faculty.

With the body-faculty there are nine substances; with the other faculties there are ten substances.

[1.2. The atom in the Form Realm (rūpadhātu)]

Because it is taught that in the Form Realm ($r\bar{u}padh\bar{a}tu$) there is neither scent nor taste, the atoms there are made up of six, seven, or eight substances respectively, according to the above-mentioned system: nothing more needs to be explained ($r\bar{u}padh\bar{a}tau$ gandharasayor abhāva uktas tena tatratyāḥ paramāṇavaḥ ṣaṭṣaptāṣṭadravyakā ity uktarūpatvāt na punar ucyante). 49

[2. Measurements of size]

In this way, the form that is reached in order of decreasing size, is the atom (*rūpasya apacīyamānasya paryantaḥ paramānuḥ*). ⁵⁰ The first eleven categories of atom, etc., are [multiples of] seven, as follows: ⁵¹

7 paramāṇu are 1 aṇu (rdul phran = Kośa) Mvy rdul phra mo 7 anu are 1 loha-rajas (lcags) Mvy, Kośa lcags rdul⁵²

7 loha-rajas are 1 śaśa-rajas (ri bon)

Mvy, Kośa ri bon rdul

7 śaśa-rajas are 1 edaka-rajas⁵³ (lug)

Mvy, Kośa lug rdul

7 edaka-rajas are 1 go-rajas (glan)

Mvy, Kośa glan rdul

7 go-rajas are 1 vātāyanacchidra-rajas (ñi zer)

Mvy, Kośa ñi zer (gyi) rdul

7 vātāyanacchidra-rajas are 1 rajas (rdul)

Mvy, Kośa —

7 rajas are 1 likṣā (sro ma)

Mvy, Kośa idem

7 likṣā are 1 yūka (śig)⁵⁴

Mvy, Kośa idem

7 yūka are 1 yava (nas)

Mvy, Kośa idem

7 yava are 1 angulī-parvan (sor mo tshigs)

Kośa sor mo'i tshigs,

Mvy sor mo, sor

3 angulī-parvan are 1 angulī (mdzub mo)

Kośa sor mo; Mvy —

⁴⁹ The Sanskrit given in parentheses is from *Kośabhāṣya*, *Indriyanirdeśa*, p. 53.17–18.

The Sanskrit given in parentheses is from Kośabhāṣya, Lokanirdeśa, p. 176.11.

⁵¹ See Kośabhāṣya, Lokanirdeśa, 176.14–177.7, ad Kośakārikā III,85d–88a; Tibetan equivalents ("Kośa") from Kośabhāṣya Tibetan, Q5591, Vol. 115, mnon pa gu, 177b6 foll.; Mvy § CCLI, nos. 8190–8206. See also La Vallée Poussin, Cosmologie, pp. 262–63. The list is given in English translation from the Tibetan at Jamgön Kongtrul, op. cit., p. 168.

⁵² Kośabhāsya and Kongtrul add here 7 loha-rajas = 1 ab-rajas (Mvy 8193, Kośa chu rdul), 7 ab-rajas = 1 śaśa-rajas, not given by Daśabalaśrīmitra.

⁵³ avi-rajas, Mvy 8195.

⁵⁴ Also described in the *Kośabhāṣya* as tad-udbhava = de las byun ba: that is, the louse $(y\bar{u}ka)$ comes from the louse-egg $(liks\bar{a})$.

As for surface measurements:55

24 angulī are 1 full hasta (khru gan = Mvy)

Kośa khru

4 hasta are 1 full dhanu (gźu gan = Kośa)

Mvy 'dom⁵⁶

500 dhanu are 1 krośa (rgyan grags)

Mvy, Kośa idem⁵⁷

8 krośa are 1 yojana (dpag tshad)

Mvy, Kośa idem.

According to the tradition (āgama) of the Ārya Sthavira nikāya, however:

500 dhanu are one kosa;

4 kosa are one gāvuta;

4 gāvuta are one yojana.

[3. Time $(k\bar{a}la)$] 58

The limit of time $(k\bar{a}la-paryanta)$ is the moment (ksana). ⁵⁹ A moment is described as the time it takes for one atom to pass to another

atom. ⁶⁰ Alternately, for a strong man to snap his fingers is 65 moments, ⁶¹ or, some say, 37. 120 moments are called one *tatkṣaṇa*; 60 *tatkṣaṇa* are one *lava*; 30 *lava* are one *muhūrta*, which is also called a *nālikā*; ⁶² 30 *muhūrta* are one day-and-night (*ahorātra*); 30 days are one month (*māsa*); 12 months are one year (*saṃvatsara*). ⁶³

[4. Chapter colophon]

"Analysis of Matter and Time" (*Rūpa-kāla-viniścaya), Chapter 5 of *The Analysis of the Conditioned and the Unconditioned*, compiled by Mahāpaṇḍita Daśabalaśrīmitra.

V. Tibetan text of Chapter 5 of the Samskrtasamkrtaviniścaya⁶⁴

[1] 'dir sems can dan snod kyi 'jig rten dag gzugs 'dus pa thams cad kyi phra ba ni rdul phra rab ces (D: *źes* Q) brjod do// gan las ches chun ba śes par bya ba med pa de ni rdul phra rab po//

[1.1] 'dod pa'i khams su sgra dan bral ba dan dban po spans pa'i rdzas brgyad ldan skye bar 'gyur ro// de la rdzas brgyad ni 'di lta ste/ sa dan/ chu dan/ me dan/ rlun dan/ gzugs dan/ dri dan/ ro dan/ reg bya'o// 'di

⁵⁵ logs la gźal bas: cf. Kośabhāṣya p. 176,ult pārśvīkṛtās tu; Kośabhāṣya Tib. 178a2 nos su bya na ni.

⁵⁶ Kośabhāsya 177.2 dhanuh, vyāsenety arthah (Kośabhāsya Tib. 178a2 khru bži la gžu gan no. 'dom gan no žes bya ba'i tha tshig go.

⁵⁷ This is the distance of an aranya: Kośakārikā III,87cd krośo 'ranyam ca tan matam (Kośabhāsya Tib. 178a2 rgyan grags de la dgon par 'dod.

Se Cf. Divyāvadāna (Śārdūlakarnāvadāna) p. 644; Hsüan-tsang in Beal I 71, Watters I 143-44; La Vallée Poussin, Cosmologie, p. 263; Jamgön Kongtrul, op. cit., pp. 168-69. Mvy § CCLIII, Dus kyi min, gives a long list of terms related to time.

⁵⁹ Kośabhāsya 176.11 kālasya paryantah kṣaṇo.

⁶⁰ Kośabhāsya 176.13, yāvatā paramānoh paramānvantaram gacchati.

⁶¹ Kośabhāṣya 176.13 balavat puruṣācchaṭasamghātamātreṇa pañcaṣaṣṭhih kṣaṇā atikrāmantīty ābhidhārmikāḥ. For puruṣācchaṭasamghātamātreṇa see Mvy 8226 and L'Abhidharmakośa III 178, n. 1.

[©] The term is transliterated as *na-li-ka*.

⁶³ See Kośabhāsya 177.7–20.

⁶⁴ Stobs beu dpal bses gñen, 'Dus byas dan 'dus ma byas rnam par nes pa, Q5865, Vol. 146, no mtshar bstan bcos ño, 17b3–18a7; D3897, dbu ma ha, 119a6–120a2. All variants are recorded except for the use of the śad (danda), in which there are only two variants—the omission of the śad in Q after dan in dri dan/ro dan/, as given by D.

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rnams su sgra rab tu bcug pas rdzas dgu ldan 'gyur ro// lus kyi dban po'i rdul phra rab ni rdzas dgu (D119b) ldan de/ de la rdzas dgu ni 'di lta ste/ rdzas brgyad po de ñid dan lus kyi dban po'i rdzas so// sgra dan bcas pa na rdzas bcu'o// dban po gźan rnams kyi rdul phra rab ni rdzas bcu ldan no// de la rdzas bcu ni 'di lta ste/ rdzas dgu po de ñid dan dban po ran ran gi rdzas so// sgra dań bcas pa na rdzas bcu gcig tu 'gyur ro// gsuńs te/

> 'dod na phra rab rdzas brgyad de (D: te Q) // sgra med pa min dban med min//

lus dbań ldan la rdzas dgu'o// dbań po gźan ldan rdzas bcu'o//65

[1.2] 'dis ni gzugs kyi khams na dri dan ro dag med par gsuns pa des na/ de dag na ni rdul phra rab dag ni rim pa bźin du rdzas drug dan bdun brgyad do źes gsuńs pa'i tshul ñid kyis na ci yań brjod par mi bya'o//

[2] de ltar gzugs 'di ñid kyi 'grib bźin pa na mthar thug pa ni rdul phra rab po// rdul phra (Q18a) rab la sogs pa'i sgra beu geig ni/ gon ma bdun 'gyur te/ 'di lta ste/ rdul phra rab bdun la rdul phran no// rdul phran bdun la leags so// leags bdun la ri bon no// ri bon bdun la lug go// lug bdun la glan no// glan bdun la ni zer ro// ni zer bdun la rdul lo// rdul bdun la sro ma'o// sro ma bdun la śig go// śig bdun la nas so// nas bdun la sor mo'i tshigs so// sor mo'i tshigs gsum la mdzub mo'o// logs la gźal (D: bźal Q) bas/ sor mo ñi śu bźi la khru gan no// khru bźi la gźu gan no// gźu lna brgya la rgyań grags so// rgyań grags brgyad (Q: brgya D) la dpag tshad do// 'phags pa gnas brtan pa'i sde pa'i lun las kyan/

'dod na dban po med pa dan// sgra med phra rab rdul rdzas brgyad// lus dban ldan la rdzas dgu'o// dban po gźan ldan rdzas bcu'o//.

gźu 'dom lna brgya rgyan grags te// rgyan grags bźi la ba lan 'gros//

A Note on Dhammapada 60 and the Length of the Yojana

ba lan 'gros bźi dpag tshad do// żes so//

[3] dus kyi mtha' ni skad cig ma ste/ de yan dus ci srid du rdul phra rab kyis rdul phra rab gźan brgal bar gyur pa de srid kyi dus la skad cig ces (D: zes O) bya'o// yan na stobs dan ldan pa'i skyes bus se gol gtogs pa tsam la skad cig ma drug cu rtsa lna'o// sum cu rtsa bdun zes pa yan no// skad cig brgya ñi śu la de'i skad cig ces (D: źes Q) so// de'i skad cig drug cu la than cig (D: gcig Q) go// than cig (D: gcig Q) (D120a) sum cu la yud tsam mo// na-li-ka źes kyań brjod do// yud tsam sum cu la ñin źag go// ñin źag (D: źags Q) sum cu la zla ba'o// zla ba bcu gñis la lo 'khor ba'o//

[4] pandi-ta (D: mkhas pa Q) chen po stobs bcu dpal (Q adds gyi) bses gñen kyis bsdus pa (D: pa'i Q) 'dus byas dan 'dus ma byas mam par nes pa las gzugs dan dus mam par nes pa zes bya ba l'eu lna pa'o//

Nandapuri

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Abbreviations

D	Derge (sDe dge) bsTan 'gyur			
Kośabhāṣya	P. Pradhan (ed.), Abhidharmakoʻsabhāsyam of			
	Vasubandhu, 2nd rev. ed., Patna, 1975			
Mm	Siamese script Mahāmakuṭarājavidyālaya (Bangkok)			
	edition			
MPS	Ernst Waldschmidt (ed.), Das Mahāparinirvāņasūtro			
	3 parts, [Berlin, 1950-51] Kyoto, 1986			
Mvy	R. Sakaki, Mahāvyutpatti, Kyoto, 1926			
PTS	roman script Pali Text Society edition			

⁶⁶ Cp. Kośakārikā II,22 at Kośabhāsya Tibetan 70b3 foll.:

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Q	Peking (Qianlong) bKa' 'gyur and bsTan 'gyur
Uv	Udānavarga
UvViv	Michael Balk, Prajñāvarman's Udānavar gavivaraņa,
	2 vols., Bonn, 1984

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Additions to the Burmese Manuscripts in the Library of Congress, Washington, D.C.

Dr Allen Thrasher of the Library of Congress called my attention to a few manuscripts that have come to (or back to) the Southeast Asia Section since I made the list published in JPTS XIII, pp. 1–31. This has made it possible to correct some entries and add new ones. There have also been a number of new palm-leaf manuscripts given to the library. Burmese-Pāli 129–153 were given by E. Gene Smith in 1993. They were bought in Thailand. Burmese-Pāli 158 and 159 were given by Mrs Mildred Goldthorpe. Burmese-Pāli 160 is an illustrated manuscript on paper recently acquired by the library.

William Pruitt

Abbreviations

- **Barnett** L.C. Barnett, A Catalogue of the Burmese Books in the British Museum (London: British Museum, 1913).
- **Bode** M.H. Bode, *The Pali Literature of Burma* (Royal Asiatic Society of Great Britain and Ireland, 1909, repr. 1966).
- Bur MSS I Heinz Bechert, Daw Khin Khin Su, Daw Tin Tin Myint, compilers, *Burmese Manuscripts, Part I* (Franz Steiner Verlag GMBH, 1979).
- Bur MSS I Heinz Braun, Daw Tin Tin Myint, compilers, *Burmese Mansucripts, Part 2* (Franz Steiner Verlag GMBH, 1985).
- PL K.R. Norman, Pāli Literature (Wiesbaden: Harrassowitz, 1983).